



5/1637

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 01-661-A)

In the Application of:	)	
	)	
Chad A. Mirkin, et al.	)	
	)	Examiner: T. Strzelecka
Serial No.: 10/034,451	)	
	)	Group Art Unit: 1637
Filed: December 28, 2001	)	
	)	Confirmation No. 9317
For: NON-ALLOYING CORE SHELL	)	
NANOPARTICLES	)	

TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

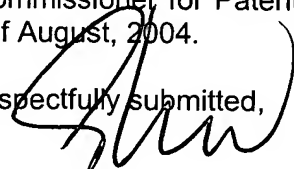
In regard to the above identified application.

1. We are transmitting herewith the attached:
  - a) Tenth Supplemental Information Disclosure Statement;
  - b) U.S. PTO 1449 Form with copies of 7 references; and
  - c) Return Postcard.
2. With respect to additional fees:  
No additional fee is required.
3. GENERAL AUTHORIZATION: Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
4. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 10 day of August, 2004.

Date:

Aug. 10, 2004

Respectfully submitted,

  
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Emily Miao  
Registration No. 35,285



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**TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In order to comply with discretionary regulations 37 CFR §§1.97 and 1.98, attached hereto is Form PTO-1449, copies<sup>1</sup> of the documents listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to allow the present application to issue as a patent Pursuant to 37 C.F.R. § 1.97(e), the references were first cited by the European Patent Office not more than three months prior to the filing of this statement. Accordingly, no fee is due.

1. Holman et al., U.S. Patent No. 6,159,378 A, issued 12/12/00
2. International Patent No. WO 95/22639 published 8/24/95
3. International Patent No. WO 98/04740 published 2/5/98

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<sup>1</sup>To the extent that a document is listed and no copy of same is attached, then such document is not at the present time available to the undersigned or is available in the file of a parent application. If a listed document is not in the English language and an English translation is readily available, such translation is also attached; if translation is not attached it is not readily available to the undersigned. If a foreign language patent document is cited, and an English language equivalent is known to the undersigned, then such equivalent patent is also cited on the attached form along with the corresponding foreign language patent and a connecting arrow indicated there between; if no such English language equivalent is cited, then none is known to undersigned.

4. International Patent No. WO 01/06257 published 1/25/01
5. Cao, et al., "DNA-Modified Core-Shell Ag/Au Nanoparticles", *J. Am. Chem. Soc.*, Vol. 123, pp. 7961-7962, 2001.
6. Remita, et al., "Radiolytic formation of bilayered Pt<sub>core</sub>/Au<sub>shell</sub> and Au<sub>core</sub>/Pt<sub>shell</sub> clusters in aqueous solution", *Radiation Physics and Chemistry*, Vol. 54, pp. 463-473, 1999.
7. Wang, et al., "The surface chemistry of hybrid nanometer-sized particles I. Photochemical deposition of gold on ultrafine TiO<sub>2</sub> particles", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Vol. 131, pp. 271-280, 1998.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

The present Disclosure Statement is being submitted in compliance with 37 CFR 1.56 insofar as an Examiner might consider any of the cited documents important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner, in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR 1.104(a) and 1.106(b) and, in the course of each search, will

review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is earnestly solicited.

Respectfully submitted,

Dated: Aug. 10, 2007



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Emily Miao  
Registration No. 35,285

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FORM PTO-1449  
(Rev. 2-32)U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

Serial No.

01-661-A

10/034,451

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

Chad A. Mirkin, et al.

Filing Date:

December 28, 2001

Group:

1637

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	6,159,378 A	12/12/00	Holman et al.	210	695	2/23/99

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	2.	WO 95/22639	8/24/95	PCT				
	3.	WO 98/04740	2/5/98	PCT				
	4.	WO 01/06257	1/25/01	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

	5.	Cao, et al., "DNA-Modified Core-Shell Ag/Au Nanoparticles", <i>J. Am. Chem. Soc.</i> , Vol. 123, pp. 7961-7962, 2001.
	6.	Remita, et al., "Radiolytic formation of bilayered Pt <sub>core</sub> /Au <sub>shell</sub> and Au <sub>core</sub> /Pt <sub>shell</sub> clusters in aqueous solution", <i>Radiation Physics and Chemistry</i> , Vol. 54, pp. 463-473, 1999.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449  
(Rev. 2-32)

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